Crane Inspection Checklist

Shift / Monthly / Annual Inspection per OSHA 1926.1412-1417 and ASME B30

Date: _____

Inspector/Operator: _____

Crane Type: Mobile / Tower / Overhead / Crawler

Make/Model: _____

Unit ID / Serial #: _____

Capacity (tons): _____

Inspection Type: Shift / Monthly / Quarterly / Annual / Comprehensive

Part 1: Structural & Mechanical

Inspection Item	What to Check	OK	Fail	N/A
Boom and jib	No cracks, bends, or corrosion. Lattice boom lacing intact. Hydraulic boom cylinders no leaks. Boom pins secured.			
Wire rope	No kinks, bird-caging, core protrusion, or crushing. End connections secure. 3+ wraps on drum at max extension. No broken wires exceeding criteria.			
Hooks and blocks	Safety latch closes. No cracks, bending, or throat opening beyond 15%. Hook swivels freely. Block sheaves rotate.			
Outriggers/crawlers	Outriggers fully extended and set on pads. Crawlers tensioned correctly. No structural damage. Level indicators functional.			
Turntable and swing	Swing gear lubricated. No excessive play. Swing brake holds. 360-degree rotation smooth. Turntable bolts torqued.			

Part 2: Controls & Safety Devices

Inspection Item	What to Check	OK	Fail	N/A
Operator controls	All levers/pedals return to neutral. Functions respond proportionally. No binding or sticking. Labels legible.			
Brakes	Swing brake holds rated load. Hoist brake holds 125% rated load. Travel brakes stop within spec. Parking brake engages.			
Load moment indicator (LMI)	Calibrated and functional. Displays radius, load, and capacity. Alarms activate at rated capacity. Anti-two-block functional.			
Boom angle/length indicators	Boom angle indicator accurate. Telescoping length display correct. Maximum radius alarm functional.			

Emergency systems	Emergency stop shuts all functions. Backup alarms audible. Fire extinguisher accessible. Horn operational.			

Part 3: Rigging & Site Conditions

Inspection Item	What to Check	OK	Fail	N/A
Slings and rigging	Rated for load. No damage, cuts, or kinking. Tags legible. Shackles properly sized and pinned. Softeners used at edges.			
Ground conditions	Ground compacted and level. Cribbing/mats under outriggers. No underground utilities or voids. Slopes evaluated.			
Power line clearance	Minimum clearance maintained (20 ft for up to 350kV). Spotter assigned if within table A distance. Utility notified.			
Lift plan	Written plan for critical lifts. Load weight verified. Rigging plan reviewed. Swing path clear. Communication established.			
Personnel	Operator certified per 1926.1427. Signal person qualified. Rigger qualified. Lift director designated for critical lifts.			

Crane contact with power lines is one of the leading causes of crane fatalities. Always assume power lines are energized. Maintain minimum clearances per OSHA 1926.1408 Table A. Never operate a crane with defective brakes, non-functional LMI, or damaged wire rope.

Deficiencies Found

Item #	Deficiency Description	Priority	Corrective Action

Inspector/Operator: _____ Date: _____ Signature: _____

Crane Manager / Competent Person: _____ Date: _____
Signature: _____